

LINK SHEET

Making (Phone) Connections

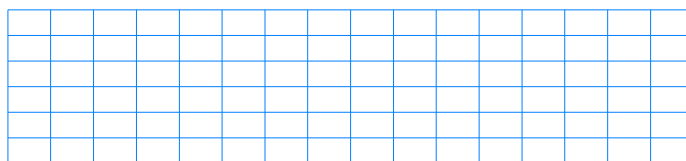
You've purchased the \$20 phone card, front and back shown.



Complete the table to show below.

the cost of making various length calls (x) both with a connection fee (Y_1) and without a connection fee (Y_2).

x	Y_1	Y_2
1	Based on the information, write the equations for:	
2		
3		
4		



Graph the two functions, Y_1 and Y_2

$Y_2 =$

Communicate what you know by answering the questions:

1. For a 10-minute call, which option costs less? Explain/show how you know.
2. When is it to your advantage to choose a connection fee? Explain.
3. With a \$20 phone card, what is the maximum number of five-minute calls you can make? Explain/show how you know.
4. What is the maximum number of sixty-minute calls you can make? Explain/show how you know.